	Application No.	Applicant(s)	
Notice of Allowability	10/718,456	HOPPER ET AL.	
	Examiner	Art Unit	
	Deloris Bryant	2813	
The MAILING DATE of this communication application application application and the communication application of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED 5) or other appropriate comr RIGHTS. This application is	in this application. If not included nunication will be mailed in due course. <b>THIS</b>	<b>S</b> ative
1. $\square$ This communication is responsive to $\underline{3/10/06}$ .			
2. The allowed claim(s) is/are 4 and 21-39.			
<ol> <li>Acknowledgment is made of a claim for foreign priority         <ul> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents ha</li> <li>2.  Certified copies of the priority documents ha</li> <li>3.  Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)).</li> </ul> </li> <li>* Certified copies not received:</li> </ol>	ve been received. ve been received in Applicat	ion No	)
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi			
<ol> <li>CORRECTED DRAWINGS ( as "replacement sheets") m         <ul> <li>(a) including changes required by the Notice of Draftsper</li> <li>(b) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examined Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in</li> </ul> </li> </ol>	erson's Patent Drawing Revi —- er's Amendment / Comment  1.84(c)) should be written on	or in the Office action of the drawings in the front (not the back) of	
6. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN	posit of BIOLOGICAL MA T FOR THE DEPOSIT OF E	TERIAL must be submitted. Note the IOLOGICAL MATERIAL.	
<ul> <li>Attachment(s)</li> <li>1. ☐ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date 3/10/06)</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. Interview Paper No 8/08), 7. Examiner	Informal Patent Application (PTO-152) Summary (PTO-413), D./Mail Date Is Amendment/Comment Is Statement of Reasons for Allowance CARL WHITEHEAD JR.	
	A	SUPERVISORY PATENT EXAMINEP: TECHNOLOGY CENTER 2800	

## **DETAILED ACTION**

1. Applicant's request for Continued Examination (RCE) filed on March 10, 2006 is acknowledged.

## Allowable Subject Matter

- 2. Claims 4 and 21-39 are allowed.
- The following is an examiner's statement of reasons for allowance. 3.

Ohuchi et al (US 3,745,424) discloses a photodiode comprising: a first semiconductor region of a first conductivity type (Fig. 1; 1); a second semiconductor region of a second conductivity type (Fig. 1; 2), the second semiconductor region lying over and contacting the first semiconductor region at a first junction; a third semiconductor region on the first conductivity type (Fig. 1; 3), the third semiconductor region lying over and contacting the second semiconductor region.

Ohuchi does not teach or fairly suggest, in combination with the other claimed features that the third semiconductor region has a first, second and third portion, respectively and that the first portion has a dopant concentration substantially greater than the dopant concentration of either the second or third portion.

Prior art of record also does not describe or suggest applicant's invention wherein the first depletion region absorbs electromagnet radiation that represents blue light, and generates blue electron-hole pairs nor that the second depletion region absorbs substantially no electromagnetic radiation that represents blue light.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deloris Bryant whose telephone number is (571) 272-8670. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.